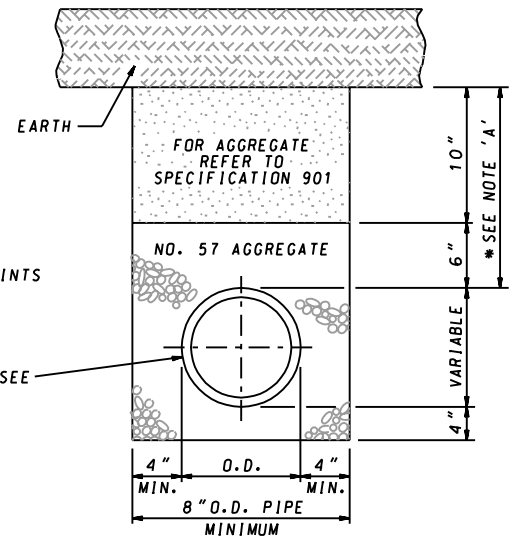
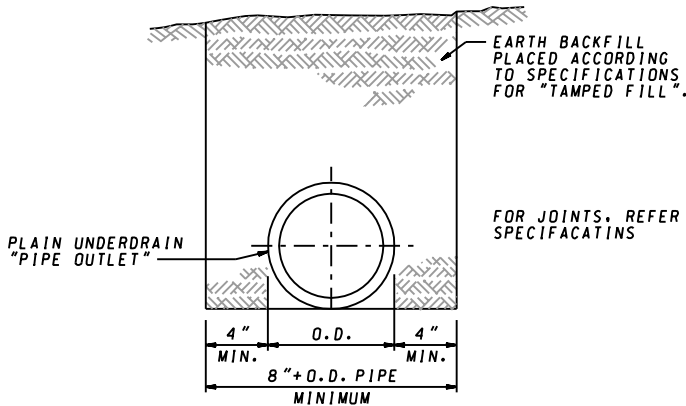


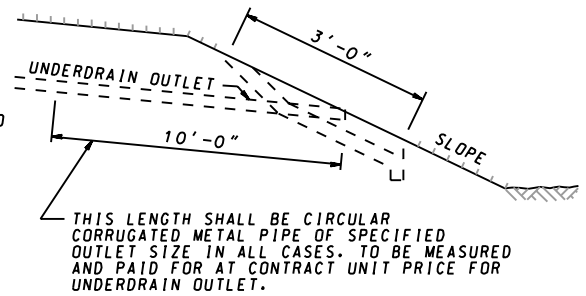
**SUB-BASE DRAINAGE  
DITCH SECTION**



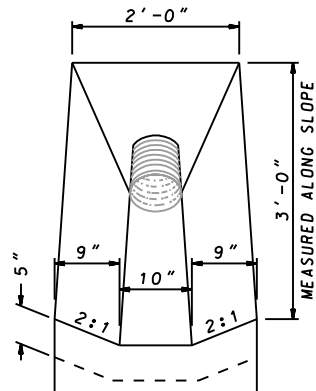
**SUB-SURFACE DRAINAGE  
DITCH SECTION**



**OUTLET DITCH SECTION**



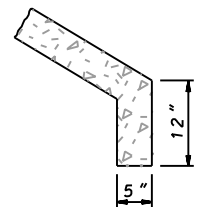
**5" CONCRETE GUTTER FOR UNDERDRAIN OUTLET**



**ELEVATION-UNDERDRAIN OUTLET**

NOTE: UNDERDRAIN TO BE LAID  
ON A MINIMUM OF 0.5% GRADE  
UNLESS OTHERWISE DIRECTED.

\* NOTE 'A': WHERE UNDERDRAIN IS OUTLETTED  
INTO AN INLET, OR WHERE ANY  
OTHER UNUSUAL CONDITIONS PREVAIL,  
THESE DIMENSIONS MAY BE VARIED  
AS DIRECTED.



**TOE WALL**

SPECIFICATION	CATEGORY CODE ITEMS										
APPROVED	<i>Kirk G. McCall</i> DIRECTOR - OFFICE OF HIGHWAY DEVELOPMENT										
<b>SHA</b> State Highway Administration	<table> <tr> <td>APPROVAL • SHA REVISIONS</td><td>APPROVAL • FEDERAL HIGHWAY ADMINISTRATION</td></tr> <tr> <td>APPROVAL 3-6-86</td><td>APPROVAL 4-14-86</td></tr> <tr> <td>REVISED 10-1-01</td><td>REVISED</td></tr> <tr> <td>REVISED</td><td>REVISED</td></tr> <tr> <td>REVISED</td><td>REVISED</td></tr> </table>	APPROVAL • SHA REVISIONS	APPROVAL • FEDERAL HIGHWAY ADMINISTRATION	APPROVAL 3-6-86	APPROVAL 4-14-86	REVISED 10-1-01	REVISED	REVISED	REVISED	REVISED	REVISED
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REVISED	REVISED										

**Maryland Department of Transportation**  
**STATE HIGHWAY ADMINISTRATION**  
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

## STANDARD UNDERDRAINS

**STANDARD NO. MD 387.01**